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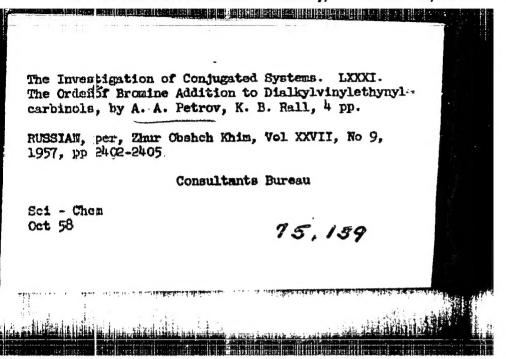
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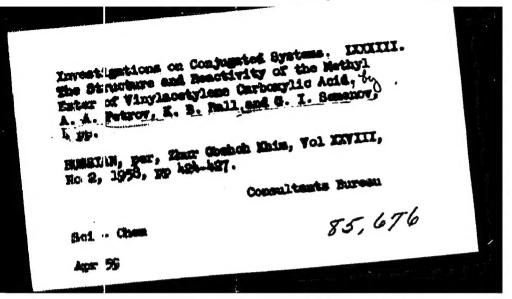
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MECHANISM JP LITHIUM-ALKYLS ADDITION TO
ENYNE-HYDROCARBONS. [1961] 2p. 6 refs.
Order from O'IS or SLA \$1. 10 61-18584

Trans. of #Zh ir[nal] Obshchei Khimii (USSR) 1960,
v. 30 [no. 12] p. 3845-3846.

DESCRIPTORS: *Lithium compounds, Alkyl radicals,
*Hydrocarbons, Chemical reactions, Infrared
spectroscopy.

(Chemistry--Crganic, 'TT, v. 6, no. 9)

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Petrov, A. A.

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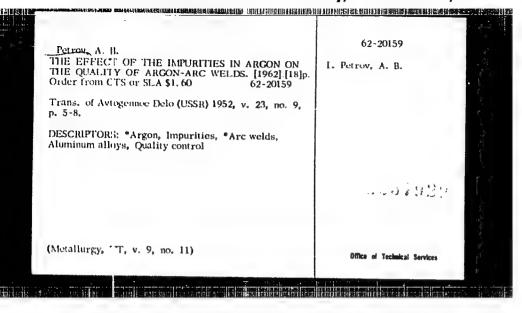
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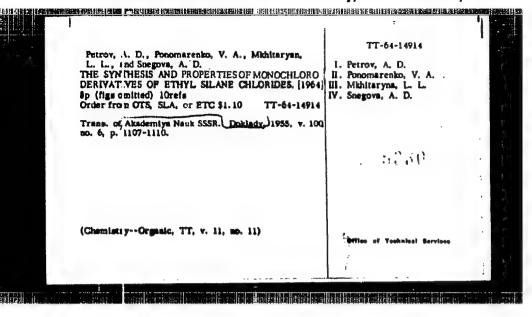
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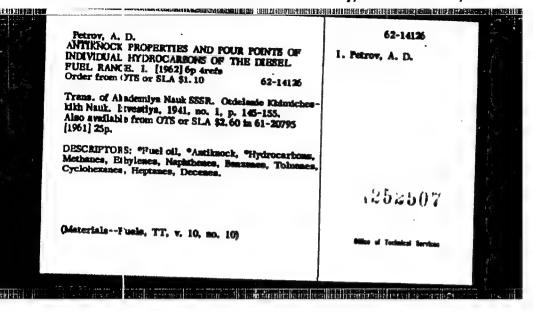
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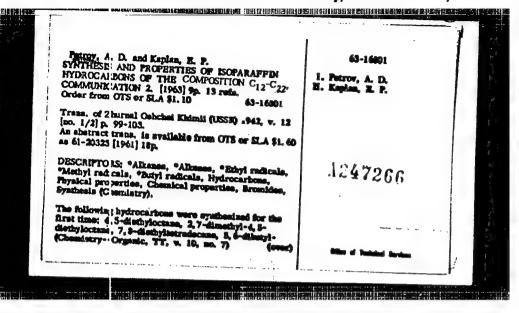
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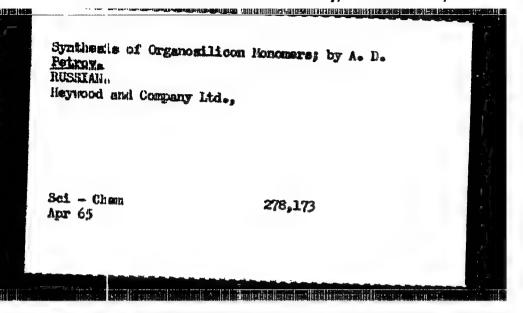
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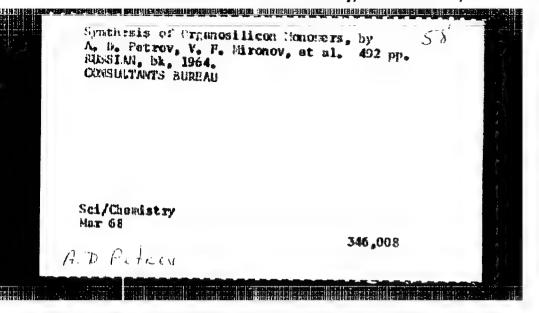
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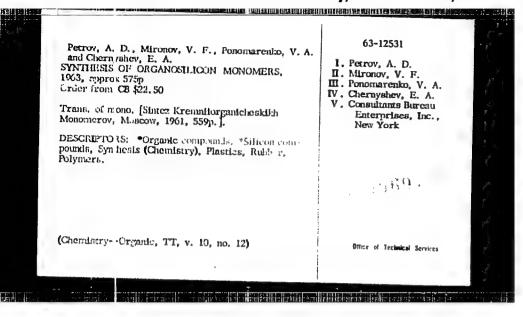
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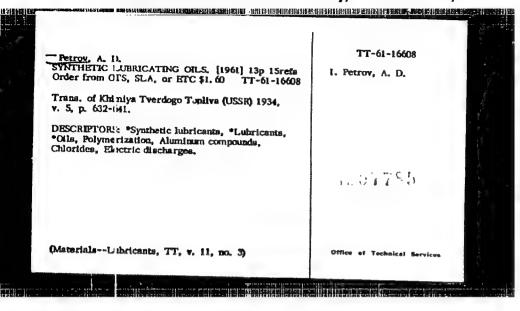
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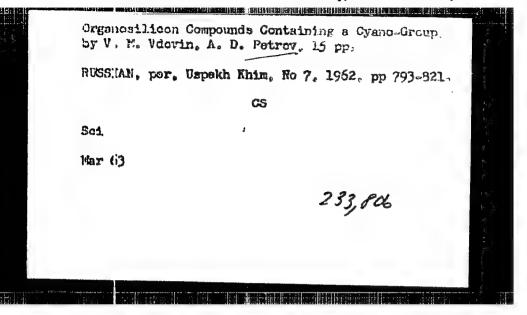
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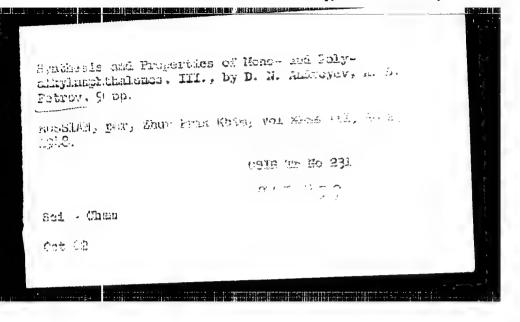
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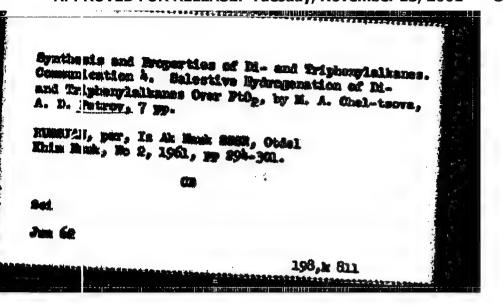
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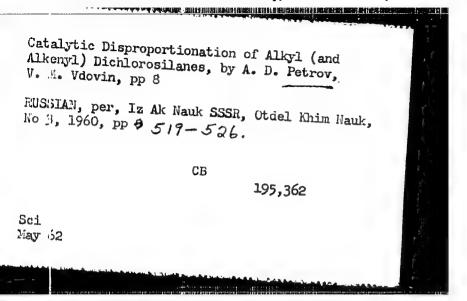
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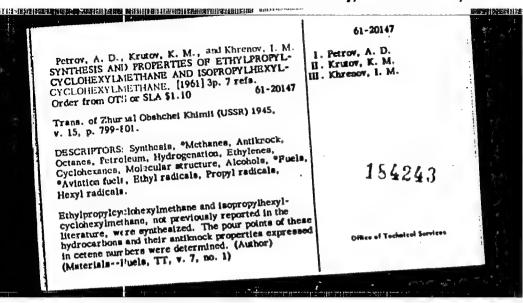
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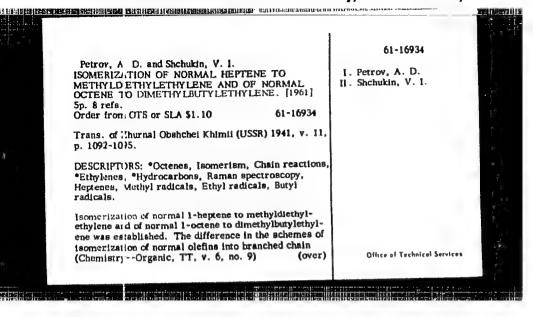
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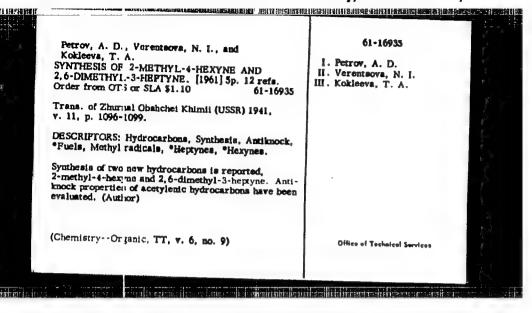
DESCRIPTORS: *Hydrocarbons, *Heptanes, Antiknock.

Octane numbers of mixtures such as polymer gasoline
cannot be derived from the octane numbers of individual
pure compounds by simple calculation. An investigation
of the change of octane numbers of five binary mixtures
with the proportions of their components was carried
out and the conclusions drawn were compared with
those drawn by Smittenberg, Hoog, Moerbeck and
Zigden in 1940. (Author)
(Chemistry--Organic, TT, v. 6, no. 9)

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Petrov, A. D. and Karlik, L. D.
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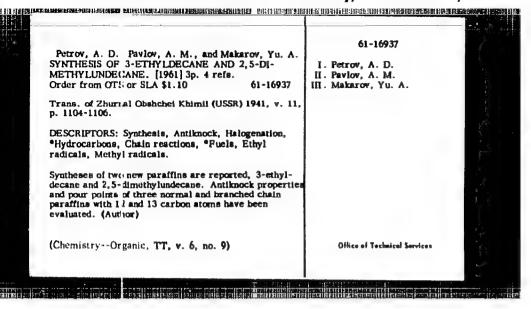
DESCRIPTORS: *Glycols, Synthesis, *Acetylenes, Alcohols, Antiknock,

Synthesis of three acetylenic 7-glycols is reported: 5-decyne-4, 7-d.ol, 9-octadecyne-8, 11-diol, 10, 13-dimethyl-11-dox osyne-10, 13-diol. The method of synthesis of glycols and alcohols of the acetylene acries suggested by L. Kazaryan was tested. Antiknock properties of acetylene alcohols and their susceptibility to tetraethyllead was studied. (Author)

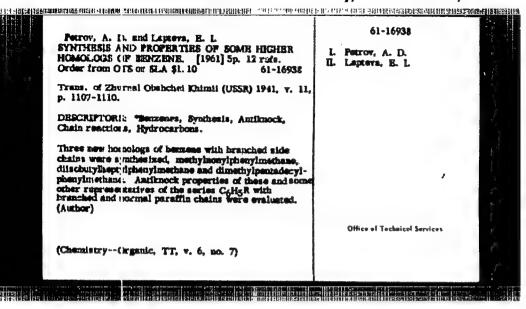
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(Chemistry--Organic, TT, v. 6, no. 7)

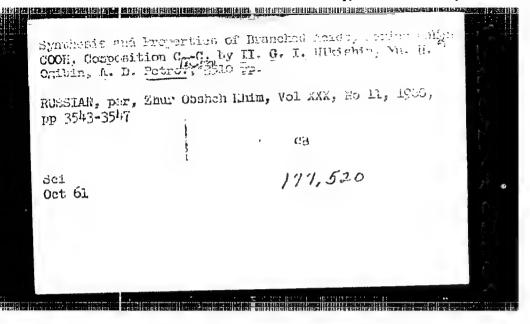
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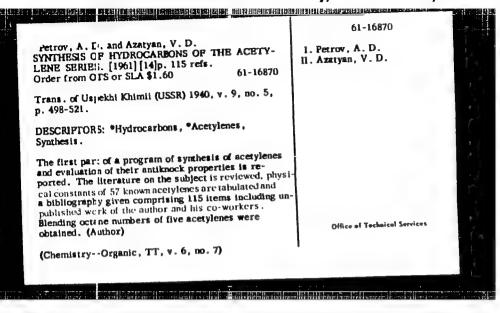
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61-18176 Letrov, A. D., Koptev, V. I., Kaplan, E. P. SYNTHESIS AND PROPERTIES OF ISOPARAFFINS . Title: Isoparaffins i. Petrov, A. D. II. Koptev, V. I. III. Kaplan, E. P. WITH FROM 9 TO 12 CARBON ATOMS. [1961] 5p... 12 refs. Order from OTS or SLA \$1.10 Trans. of Akacemiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1944 [no. 1] p. 152-155. DESCRIPTORS *Hydrocarbons, Synthesis, Molecular isomerism, Artiknock, Properties. Synthesis of five isoparaffins with from 9 to 12 carbon Synthesis of the isoparatins with from 9 to 12 carbon atoms and different extent of branching of the chain was effected through the tertiary alcohols by a Grignard reaction; of these, 2, 2, 3, 5-terramethyliszane was synthesized for the first time. It was shown that hydrocarbons of the above mentioned composition possessing two quaternary carbons or one quaternary and two tertiary carbon atoms have high octane numbers of the order of about 100. (Author) (Chemistry--Crganic, TT, v. 6, no. 6)

CIA-RDP84-00581R00010

Petroy, A. D. and Vittikh, M. V.
SYNTHESIS AND PROPERTIES OF ISOPARAFFIN
HYDROCARBON'S WITH 13 TO 24 CARBON ATOMS IN THE MOLECULE. [1961] 5p. 6 refs. Order from OTS or SLA \$1.10

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. izvestiya, 1944 [no. 1] p. 238-242.

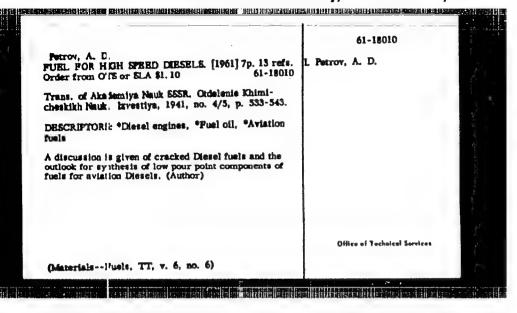
DESCRIPTORS: 'Hydrocarbons, Molecular isomerism, Symbesis, Properties.

On the example of six isoparaffins with a T-like structure containing from 13 to 24 carbon atoms in the molecule, for the most part newly synthesized com-pounds, it was communicated that the hydrocarbons of this type with from 21 to 24 carbon atoms are dis-tinguished by cetene numbers close to 100 and sufficiently low pour points. (Author)

(Chemistry -- Organic, TT, v. 6, no. 6)

61-18174 1. Title: Isoparaffins 1. Petrov, A. D. II. Vittikh, M. V.

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Synthesis and Reactions of Organo-Silicon, Germanium, and Tin Compounds, by A. D. Petrov.

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Acylation of Silicohydrocarbons and Synthesis of Silicon-Containing &-Methylstyrenes, by E. A. Chernyshev, Yé. N. Klyukina, A. D. Petrov, 5 pp.

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Nitration of Aromatic Sila-Hydrocarbons in Which the Aromatic Ring Occupies Various Positions with Respect to the Silicon Atom, by E. A. Chernyshev, M. E. Dolgaya, A. D. Petrov, 5 pp.

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Synthesis and Properties of 4-Alkyl- and 4, 4'- Dialkylliphenyls of Composition C₁₆-C₃₂ and Their Hydrides, by E. P. Kaplan, Z. I. Kazakova, A. D. Petrov, 7 pp.

RUSSIAN, per, Zhur Obahch Khim, Vol XXX, No 2, 1960, pp 369-175.

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Interaction of 2, 2, 3, 3-Tetramethylpentanone-4 With Alkyllithiums, by A. D. Petrov, Kao Ch'ing-lang, V. M. Semenkin, 6 pp.

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Synthesis of Diphenylalkanes by the Wurtz Reaction in Tetrahydrofuran or Methylal, by A. D. Petrov, E. F. Zakharov, Yu, M. Zaveryayev, 8 pp.

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Properties of C₁₁-C₂₈ Naphthene Hydrocarbons of Variable Structure, by A. D. Petrov, B. D. Zaloga, V. G. Malanicheva, 12 pp.

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Synthesis of Polymers Having Alternating Siloxane and Hydrocarbon Units, by A. D. Petrov, V. M. Vdovin 5 1p.

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Reaction of tort-Sutyl Mithium with Esters, by A. D. Petrov, E. B. Sokolova, Esc Chingwhong, 10 pp.

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Tests showed that the washing capacity of solutions of alkyl benzene sulphonates depends on the length of the chain and its branches: the longer and the less branched, the greater the washing capacity. Compounds having a straight or only slightly branched chain containing 12 carbon atoms are effective at higher temperatures than compounds having a (Materials, TI, v. 5, no. 8) (over)

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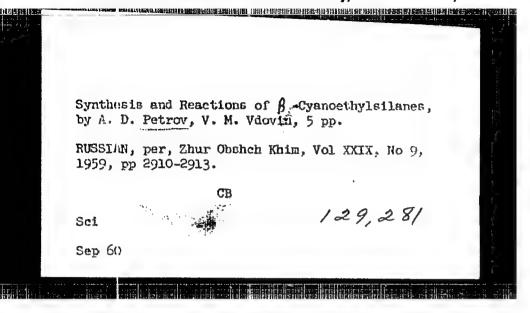
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